

**INFORMATION
DISCLOSURE
STATEMENT**

Atty. Docket No.: 110.02040101

Serial No.: 10/676,324

Applicant(s): DELUGA et al.

Confirmation No.: 6481

Application Filing Date: 09/30/03

Group: ~~1624~~ 1754Information Disclosure Statement mailed: *June 14, 2004***U.S. PATENT DOCUMENTS**

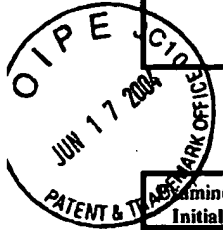
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>MM</i>	5,980,782	11/09/99	Hershkowitz et al.			
<i>MM</i>	5,993,192	11/30/99	Schmidt et al.			
<i>MM</i>	6,092,921	07/25/00	Wentinck et al.			
<i>MM</i>	6,365,543 B1	04/02/02	Schmidt et al.			
<i>MM</i>	6,455,597 B2	09/24/02	Hohn et al.			
<i>MM</i>	6,548,447 B1	04/15/03	Yokoyama et al.			
<i>MM</i>	2001/0027258 A1	10/04/01	Hohn et al.			
<i>MM</i>	2002/0087042 A1	07/04/02	Schmidt et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>MM</i>	EP 0303429 A2	02/15/89	EP				
<i>MM</i>	EP 1043271 A1	10/11/00	EP				
<i>MM</i>	EP 1109876 B1	07/09/03	EP				
<i>MM</i>	WO 96/13475	05/09/96	PCT				
<i>MM</i>	WO 96/33149	10/24/96	PCT				
<i>MM</i>	WO 97/26987	07/31/97	PCT				
<i>MM</i>	WO 97/29062	08/14/97	PCT				
<i>MM</i>	WO 99/35082	07/15/99	PCT				
<i>MM</i>	WO 00/14180	03/16/00	PCT				
<i>MM</i>	WO 01/32556 A1	05/10/01	PCT				

EXAMINER*Maribel Medina***Date Considered***7/20/2005*

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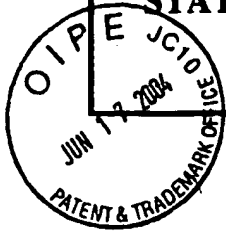
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Group: 162+ 1754

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**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Document Description
MM	Deluga et al., "Renewable Hydrogen from Ethanol by Autothermal Reforming," <i>Science</i> , 2004; 303:993-997.
MM	"Homogenous-heterogeneous combustion: Thermal and chemical coupling," Abstract, DOE Contract No. FG02-88ER13878, 2 pgs.

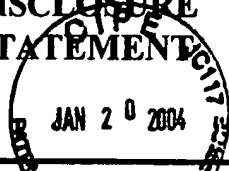
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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MM	3,900,646	08/19/75	Clyde			
MM	3,957,685	05/18/76	Heide et al.			
MM	3,998,758	12/21/76	Clyde			
MM	4,088,607	05/09/78	Weidenbach et al.			
MM	4,251,239	02/17/81	Clyde et al.			
MM	4,253,302	03/03/81	Asano et al.			
MM	4,308,233	12/29/81	Narumiya et al.			
MM	4,568,595	02/04/86	Morris			
MM	4,810,685	03/07/89	Twigg et al.			
MM	4,863,712	09/05/89	Twigg et al.			
MM	4,940,826	07/10/90	Font Freide et al.			
MM	5,105,052	04/14/92	Font Freide et al.			
MM	5,221,464	06/22/93	Durante et al.			
MM	5,382,741	01/17/95	Astbury et al.			
MM	5,500,149	03/19/96	Green et al.			
MM	5,593,935	01/14/97	Golunski et al.			
MM	5,597,771	01/28/97	Hu et al.			
MM	5,639,929	06/17/97	Bharadwaj et al.			
MM	5,648,582	07/15/97	Schmidt et al.			
MM	5,654,491	08/05/97	Goetsch et al.			
MM	5,856,585	01/05/99	Sanfilippo et al.			
MM	5,905,180	05/18/99	Yokoyama et al.			
MM	5,980,731	11/09/99	Kao et al.			

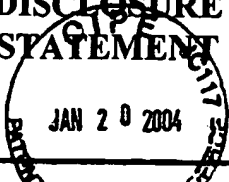
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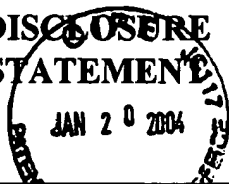
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<i>MM</i>	6,072,097	06/06/00	Yokoyama et al.			
<i>MM</i>	6,083,425	07/04/00	Clawson et al.			
<i>MM</i>	6,123,913	09/26/00	Clawson et al.			
<i>MM</i>	6,126,908	10/03/00	Clawson et al.			
<i>MM</i>	6,197,717 B1	03/06/01	Alexander et al.			
<i>MM</i>	6,207,122 B1	03/27/01	Clawson et al.			
<i>MM</i>	6,221,280 B1	04/24/01	Anumakonda et al.			
<i>MM</i>	6,245,303 B1	06/12/01	Bentley et al.			
<i>MM</i>	6,254,807 B1	07/03/01	Schmidt et al.			
<i>MM</i>	6,254,839 B1	07/03/01	Clawson et al.			
<i>MM</i>	6,387,554 B1	05/14/02	Verykios			
<i>MM</i>	6,407,301 B1	06/18/02	Foley et al.			
<i>MM</i>	6,444,867 B1	09/03/02	Samsel et al.			
<i>MM</i>	6,452,061 B1	09/17/02	Schmidt et al.			
<i>MM</i>	6,605,376 B2	08/12/03	Verykios			
<i>MM</i>	US 2001/ 0009653 A1	07/26/01	Clawson et al.			

FOREIGN PATENT DOCUMENTS

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						Yes	No
<i>MM</i>	0576096 A2	12/29/93	EP				
<i>MM</i>	0640559 A1	03/01/95	EP				
<i>MM</i>	EP 0922011 B1	07/25/01	EP				
<i>MM</i>	EP 1007472 B1	09/03/03	EP				
<i>MM</i>	1,067,957	05/10/67	GB				

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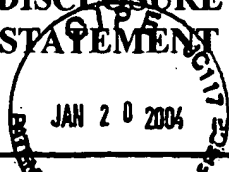
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MM	EP 1118583 A2	07/25/01	EP				
MM	FR 1379027	11/20/64	FR (abstract only)				X
MM	JP 2001-080904	03/27/01	JP (English language abstract included)				X
MM	JP 2001-089108	04/03/01	JP (English language abstract included)				X
MM	WO 98/08771	03/05/98	WIPO				
MM	WO 99/61369	12/02/99	WIPO				


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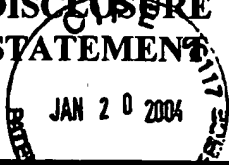
Examiner Initial	Document Description
MM	Aupretre et al., "Le vaporeformage catalytique: Application a la production embarquee d'hydrogene a partir d'hydrocarbures ou d'alcools," <i>Ann. Chim. Sci. Mat.</i> , 2001, 26(4):93-106 (with English language abstract).
MM	Bodke et al., "The Effect of Ceramic Supports on Partial Oxidation of Hydrocarbons Over Noble Metal Coated Monoliths," <i>Journal of Catalysis</i> , 1998; 179:138-149.
MM	Bodke et al., "High Selectivities to Ethylene by Partial Oxidation of Ethane," <i>Science</i> , 1999; 285:712-715.
MM	Bodke et al., "Oxidative Dehydrogenation of Ethane at Millisecond Contact Times: Effect of H ₂ Addition," <i>J. Catalysis</i> , 2000; 191:62-74.
MM	Brown, "A comparative study of fuels for on-board hydrogen production for fuel-cell-powered automobiles," <i>Int. J. Hydrogen Energy</i> , 2001, 26:381-397.
MM	Burch et al., "Investigation of the reactions of acetaldehyde on promoted rhodium catalysts," <i>Applied Catalysis A: General</i> , 1992; 88:61-76.
MM	Cavallaro et al., "Ethanol steam reforming in a molten carbonate fuel cell. A preliminary kinetic investigation," <i>Int. J. Hydrogen Energy</i> , 1996; 21(6):465-469.
MM	Cavallaro, "Ethanol Steam Reforming on Rh/Al ₂ O ₃ Catalysts," <i>Energy & Fuels</i> , 2000, 14:1195-1199.
MM	Chornet et al., "Harnessing hydrogen," <i>Nature</i> , 29 Aug. 2002; 418:928-929.

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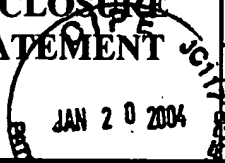
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mm	Cohn et al., "Onboard plasmatron generation of hydrogen for extremely low emission vehicles with internal combustion engines," <i>Int. J. Vehicle Design</i> , 1996; 17(5/6):550-561.
mm	Cordi et al., "Transient oxidation of volatile organic compounds on a CuO/Al ₂ O ₃ catalyst," <i>Applied Catalysis B: Environmental</i> , 1997; 14:23-36.
mm	Cortright et al., "Hydrogen from catalytic reforming of biomass-derived hydrocarbons in liquid water," <i>Nature</i> , 29 Aug. 2002; 418:964-967.
mm	Dietz III et al., "Partial Oxidation of C ₅ and C ₆ Alkanes over Monolith Catalysts at Short Contact Times," <i>Journal of Catalysis</i> , 1996; 176:459-473.
mm	Fatsikostas et al., "Steam reforming of biomass-derived ethanol for the production of hydrogen for fuel cell applications," <i>Chem. Comm.</i> , 2001; 851-852.
mm	Fishtik et al., "A thermodynamic analysis of hydrogen production by steam reforming of ethanol via response reactions," <i>Int. J. Hydrogen Energy</i> , 2000; 25:31-45.
mm	Freni, "Rh based catalysts for indirect internal reforming ethanol applications in molten carbonate fuel cells," <i>Journal of Power Sources</i> , 2001; 94:14-19.
mm	Galvita et al., "Synthesis gas production by steam reforming of ethanol," <i>Applied Catalysis A: General</i> , 2001; 220:123-127.
mm	Goetsch et al., "Microsecond Catalytic Partial Oxidation of Alkanes," <i>Science</i> , 1996; 271:1560-1562.
mm	Gomez et al., "Kinetic Study of Partial Oxidation of Ethanol over VMgO Catalyst," <i>Ind. Eng. Chem. Res.</i> , 1997; 36:3468-3472.
mm	Hacohen et al., "Driving Cycle Simulation of a Vehicle Motored by a SI Engine Fueled with H ₂ -Enriched Gasoline," <i>Int. J. of Hydrogen Energy</i> , 1991; 16(10):695-702.
mm	Henning et al., "Oxidative dehydrogenation of ethane at short contact times: species and temperature profiles within and after the catalyst," <i>Chem. Eng. Sci.</i> , 2002; 57(14):2615-2625.

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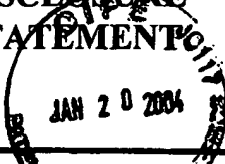
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mm	Hickman et al., "Synthesis gas formation by direct oxidation of methane over Pt monoliths," <i>Journal of Catalysis</i> , 1992; 138:267-282.
mm	Hickman et al., "Synthesis Gas Formation by Direct Oxidation of Methane over Rh Monoliths," <i>Catal. Lett.</i> , 1993; 17(3-4):223-237.
mm	Hickman et al., "Steps in CH ₄ Oxidation on Pt and Rh Surfaces; High-Temperature Reactor Simulations," <i>AIChE Journal</i> , 1993; 39(7):1164-1177.
mm	Hickman et al., "Production of syngas by direct catalytic oxidation of methane," <i>Science</i> , 15 Jan. 1993; 259:343-346.
mm	Huff et al., "Partial Oxidation of CH ₄ , C ₂ H ₆ , and C ₃ H ₈ on Monoliths at Short Contact Times," <i>Stud. Surf. Sci. Catal.</i> , Natural Gas Conversion II, Proceedings of the Third Natural Gas Conversion Symposium, Sydney, Australia, 4-9 July 1993; 81:315-320 (1994).
mm	Ioannides, "Thermodynamic analysis of ethanol processors for fuel cell applications," <i>Journal of Power Sources</i> , 2001, 92:17-25.
mm	Jamal et al., "On-Board Generation of Hydrogen-Rich Gaseous Fuels - A Review," <i>Int. J. Hydrogen Energy</i> , 1994; 19(7):557-572.
mm	Klein et al., "Catalytic partial oxidation of methane to syngas: staged and stratified reactors with steam addition," <i>Stud. Surf. Sci. Catal.</i> , Natural Gas Conversion VI, Proceedings of the Sixth Natural Gas Conversion Symposium, Alaska, 17-22 June 2001; 136:245-250 (2001).
mm	Krummenacher et al., "Catalytic Partial Oxidation of Higher Hydrocarbons at Millisecond Contact Times: Decane, Hexadecane, and Diesel Fuel," 18th North American Catalysis Society Meeting, Cancun, Mexico, June 1-6, 2003; 2 pgs.
mm	Krummenacher et al., "Catalytic partial oxidation of higher hydrocarbons at millisecond contact times: decane, hexadecane, and diesel fuel," <i>Journal of Catalysis</i> , 2003;215:332-343.
mm	Lakshmi et al., "Synthesis, Characterization, and Activity Studies of Vanadia Supported on Zirconia and Phosphorus-Modified Zirconia," <i>Langmuir</i> , 1999; 15:3521-3528.

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Examiner Initial	Document Description
<i>mm</i>	Mariño et al., "Hydrogen from steam reforming of ethanol. Characterization and performance of copper-nickel supported catalysts," <i>Int. J. Hydrogen Energy</i> , 1998;23(12):1095-1101.
<i>mm</i>	Mariño et al., "Hydrogen production from steam reforming of bioethanol using Cu/Ni/K/γ-Al ₂ O ₃ catalysts. Effect of Ni," <i>Int. J. Hydrogen Energy</i> , 2001, 26:665-668.
<i>mm</i>	Mazzocchia et al., "Hydrogenation of CO over ZrO ₂ -supported Rh catalysts: kinetic aspects," <i>Journal of Molecular Catalysis</i> , 1990; 60:283-294.
<i>mm</i>	Mazzocchia et al., "Hydrogenation of CO over Rh/SiO ₂ -CeO ₂ catalysts: kinetic evidences," <i>Journal of Molecular Catalysis A: Chemical</i> , 2001; 165:219-230.
<i>mm</i>	O'Connor et al., "High yields of synthesis gas by millisecond partial oxidation of higher hydrocarbons," <i>Catal. Lett.</i> , 2000; 70:99-107.
<i>mm</i>	Otsuka et al., "The Partial Oxidation of Light Alkanes (CH ₄ , C ₂ H ₆ , C ₃ H ₈) Over B-P Mixed Oxides," <i>Stud. Surf. Sci. Catal.</i> , Natural Gas Conversion, Proceedings of the Natural Gas Conversion Symposium, Oslo, 12-17 Aug. 1990; 61:15-23 (1991).
<i>mm</i>	Pestryakov et al., "Physicochemical study of active sites of metal catalysts for alcohol partial oxidation," <i>Journal of Molecular Catalysis A: Chemical</i> , 2000; 158:325-329.
<i>mm</i>	Rampe et al., "Hydrogen generation from biogenic and fossil fuels by autothermal reforming," <i>Journal of Power Sources</i> , 2000; 86:536-541.
<i>mm</i>	Su et al., "Heterogeneous Partial Oxidation of Light Alkanes," Abstracts of Papers, 224 th ACS National Meeting, Boston, MA, 2002; 3 pgs.
<i>mm</i>	Tamman, "Zur Rekristallisation von Metallen und Salzen," <i>Anorg. Allg. Chem.</i> , 1923; 126:119-128.
<i>mm</i>	Traxel et al., "Partial Oxidation of methanol at millisecond contact times," <i>Applied Catalysis A: General</i> , 2003; 244:129-140.
<i>mm</i>	Vasudeva et al., "Steam reforming of ethanol for hydrogen production: thermodynamic analysis," <i>Int. J. Hydrogen Energy</i> , 1996; 21(1):13-18.

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<i>MM</i>	Vickers et al., "PLOT Column Considerations for the Gas Chromatographic Analysis of Ozone Precursors," <i>J&W Scientific</i> , Aug. 1998:9 pgs.
<i>MM</i>	Wang et al., "Study on the partial oxidation of ethanol to hydrogen in the presence of Ni-Fe catalyst," <i>Wuii Huaxue Xuebao (Acta Physico-Chimica Sinica)</i> , 2002, 18(5):426-431; with English language abstract and translation, 18 pgs.

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